

## ABSTRACT

With the objective of suppressing the adverse effect of residual magnetization caused by encode ordering, twelve encode points are defined as a first segment in order of decreasing distances from a center  $Cyz$  of a  $K$  space, twelve encode points are next defined as a second segment in order of decreasing distances from the center  $Cyz$ , and twelve encode points are defined as a third segment in order of decreasing distances from the center  $Cyz$  subsequently to it. Serial numbers are assigned to the encode points of the first quadrant in the first segment in order of decreasing distances from the center  $Cyz$ . Next, serial numbers are assigned to the encode points of the second quadrant in the first segment in order of decreasing distances from the center  $Cyz$ . Next, serial numbers are assigned to the encode points of the third quadrant in the first segment in order of decreasing distances from the center  $Cyz$ . Next, serial numbers are assigned to the encode points in the fourth quadrant in the first segment in order of decreasing distances from the center  $Cyz$ . Even in the case of the second segment, serial numbers are next assigned to the encode points of the first, second, third and fourth quadrants in the same manner as described above in order of decreasing distances from the center of a  $K$  space. Serial numbers are assigned subsequently in a manner similar to the above. Further, the  $K$  space is encoded in order of the serial numbers to collect data.